



Building Connections Congress 2020

Perspectives: Practice and the future of computational design technologies

8:00am	Welcome Sign-in and breakfast in the social gallery
8:30am	Introduction Ryan Johnson, AIA, Clark Nexsen, Inc., 2020 TAP Chair
9:00am	Session 1: Data in computational design Synthesizing and incorporating large datasets to inform the creative process can result in better, and higher performing designs. But with all this data, how should we use it? What data should we collect? How should we collect it? This session will discuss strategies for working with data to improve our designs. Speakers: Emily Griffith, North Carolina State University Violet Whitney, Sidewalk Labs/Columbia University Moderator: Charlie Williams, AIA, LPA Inc., 2019 TAP Chair
10:00am	Break
10:30am	Session 2: Augmenting the design process Technology enables us to become better designers by creating designs faster and helping to discover answers to complex questions. The tools we use act as a catalyst to augment our decision-making abilities by providing feedback on our designs. In this session you will learn how leading design firms have embraced computational design to supercharge their design process. Speakers: Matt Goldsberry, AIA, HDR Nicholas Cameron, AIA Moderator: Charlie Williams, AIA, LPA Inc., 2019 TAP Chair
11:30am	Sponsor highlight
12:00pm	Lunch in the social gallery

1:00pm	<p>Session 3: Analytics via computational design</p> <p>Conventionally, architects rely on their intuition and experience to determine building performance. This high-risk way of working must stop. Instead of relying on intuition, we must evaluate and improve our designs through computational analysis. In this session you will learn from building performance experts how they use computational analysis thinking and tools to improve building performance.</p> <p>Speakers: Andrea Love, AIA, Payette Z Smith, FAIA, Eskew Dumez Ripple</p> <p>Moderator: Natasha Luthra, Jacobs, 2018 TAP Chair</p>
2:00pm	<p>Break</p>
2:30pm	<p>Session 4: Automation in computational design</p> <p>Creating our instruments of service has not fundamentally changed in years, relying on highly educated and compensated staff to manually, and inefficiently, manipulate building elements on paper or computer screen. To survive as a profession, we must abandon this 'business as usual' approach and embrace automation. In this session, Computational Design experts will describe various approaches to automation, and share how to incorporate them into your workflows.</p> <p>Speakers: Alyssa Haas, Stanec Dane Stokes, ZGF Architects</p> <p>Moderator: Natasha Luthra, Jacobs, 2018 TAP Chair</p>
3:30pm	<p>Session 5: Increasing collaboration with technology</p> <p>Technology is enabling increased collaboration between design and construction teams. Increased collaboration has numerous benefits, including better performing projects, reduced risk, costs, and more. This session will review how architects and contractors are changing the way they delivery projects through collaboration.</p> <p>Speakers: Robert Otani, Thornton Tomasetti Brian Krause, Clark Construction</p> <p>Moderator: Ryan Johnson, AIA, Clark Nexsen, Inc., 2020 TAP Chair</p>
4:30	<p>Closing remarks</p> <p>Ryan Johnson, AIA, Clark Nexsen, Inc., 2020 TAP Chair</p>
5:00pm	<p>Reception in the social gallery</p>

About TAP

The AIA Technology in Architectural Practice Knowledge Community (TAP) serves as a resource for AIA members, the profession, and the public in the deployment of computer technology in the practice of architecture. TAP leaders monitor the development of computer technology and its impact on architecture practice and the entire building life cycle, including design, construction, facility management, and retirement or reuse.

Learn more at www.aia.org/tap.